

**PAT-NO:** JP405032428A  
**DOCUMENT-IDENTIFIER:** JP 05032428 A  
**TITLE:** METHOD FOR WORKING GLASS AND ITS APPARATUS  
**PUBN-DATE:** February 9, 1993

**INVENTOR-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
FUKATSU, TORU	

**ASSIGNEE-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
HOYA CORP	N/A

**APPL-NO:** JP03190115  
**APPL-DATE:** July 30, 1991

**INT-CL (IPC):** C03B033/09 , B23K026/00 ,  
B26F003/06

US-CL-CURRENT: 225/93.5

**ABSTRACT:**

**PURPOSE:** To provide a method for working glass in which a glass body to be worked can readily and rapidly be split into a complicated shape while suppressing occurrence of dust, etc., and its apparatus.

**CONSTITUTION:** A method for working glass of

this invention and its apparatus are as follows. A laser beam (L1) within an ultraviolet light region having high absorptivity for a glass body 11 to be worked is concentrated on a surface part of the glass body 11 to be worked and its concentrated point is scanned along the shape of the purpose of working. Thereby, scribing is carried out on the surface part of the glass body 11 to be worked and the aforementioned glass body to be worked is then irradiated with a laser beam (L2) having a higher absorptivity for the aforementioned glass body 11 to be worked along a site where the scribing is carried out to apply a thermal strain related to the splitting to the above-mentioned site. As the result of the splitting, the glass body to be worked can readily and rapidly be split into a complicated shape while suppressing occurrence of dust, etc.

COPYRIGHT: (C)1993,JPO&Japio